

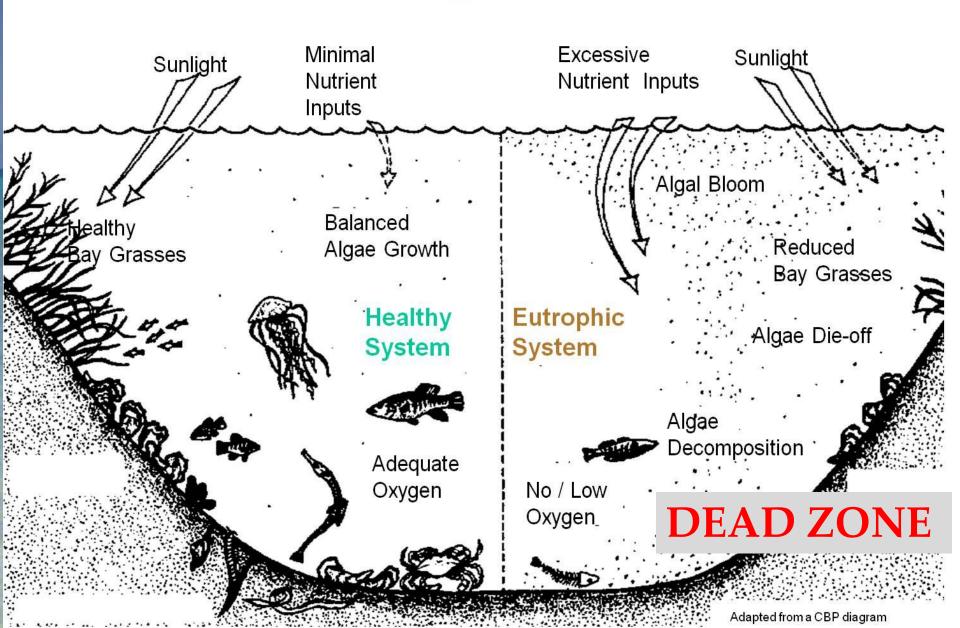


## What is Eutrophication and Hypoxia?

Eutrophication (noun) is defined as "increase in the rate of supply of organic matter to an ecosystem" (Nixon 1995).

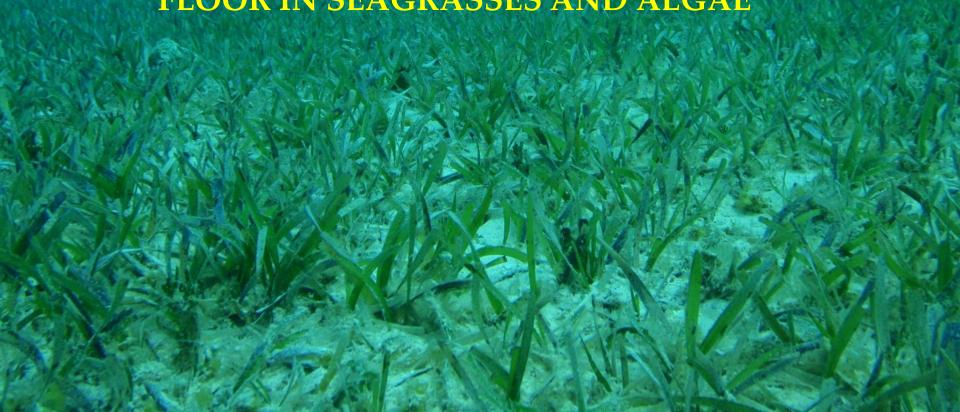
Hypoxia (noun) is reduced dissolved oxygen content of a body of water detrimental to aerobic organisms. Hypoxic conditions resulting from eutrophication kill fish and other marine life...

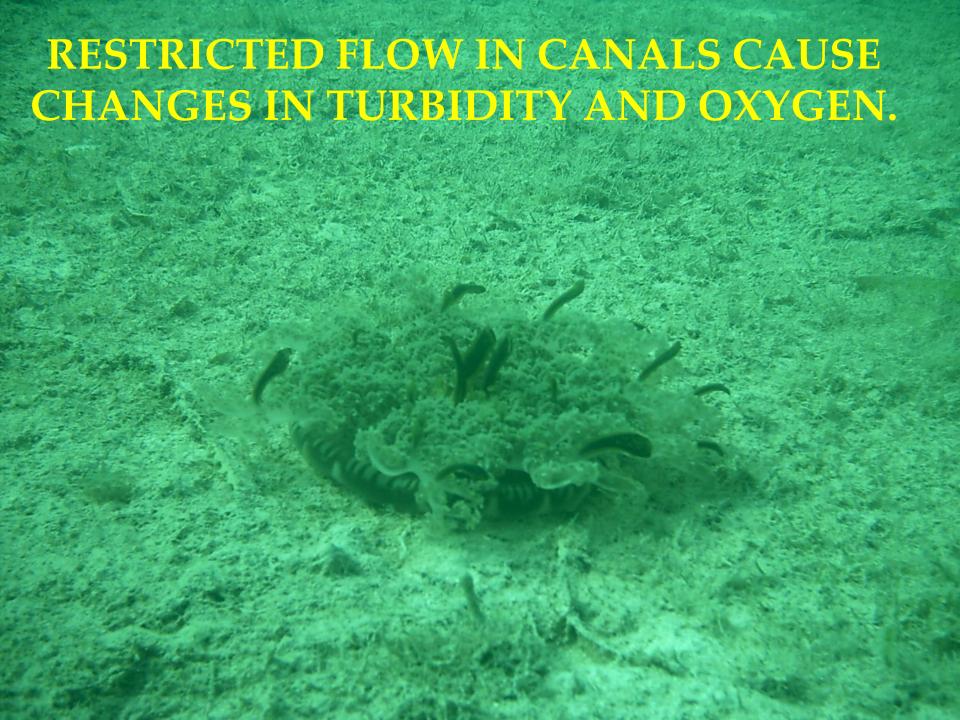
## The Big Picture

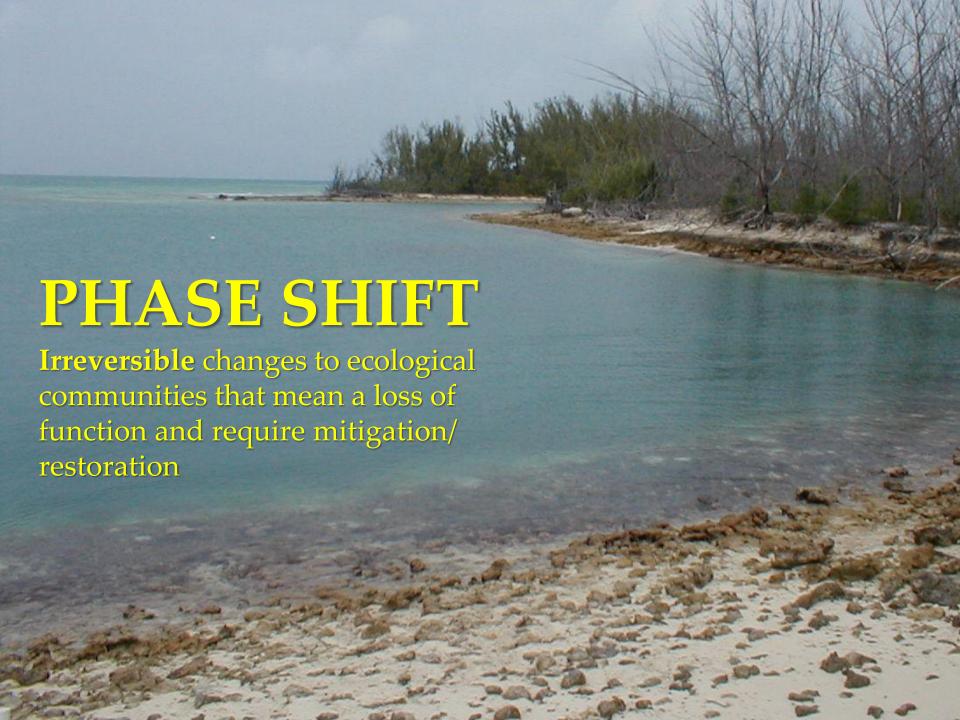


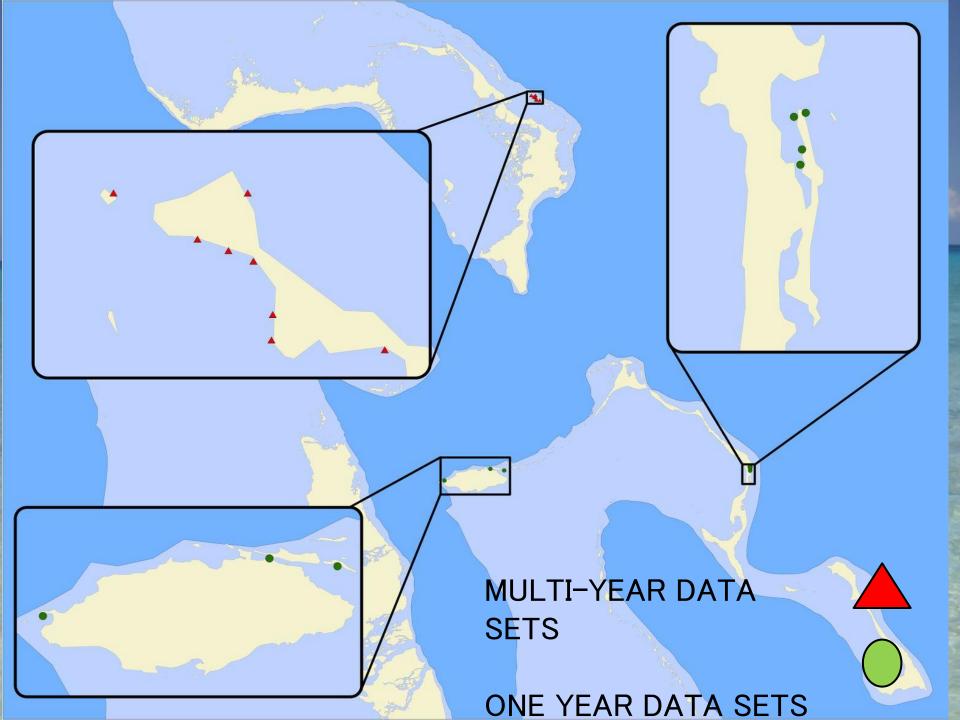


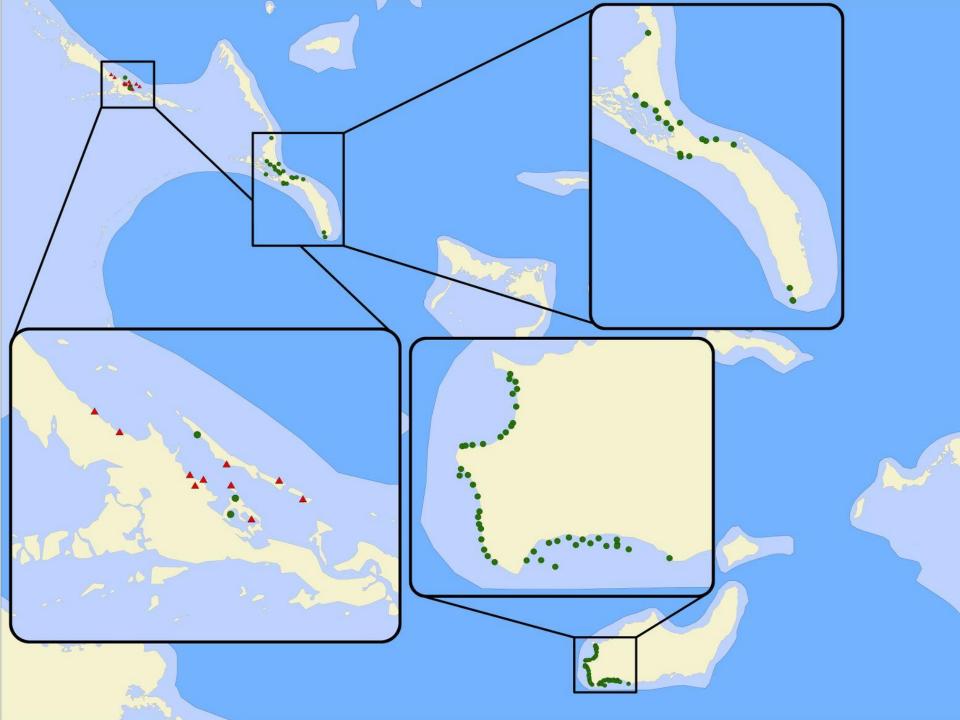
- LOW NUTRIENTS
- CLEAR WATER
- HIGH SOLAR IRRADIATION
- SEASONAL AND VARIABLE RAINFALL
- PRIMARY PRODUCTION LINKED TO THE SEA FLOOR IN SEAGRASSES AND ALGAE







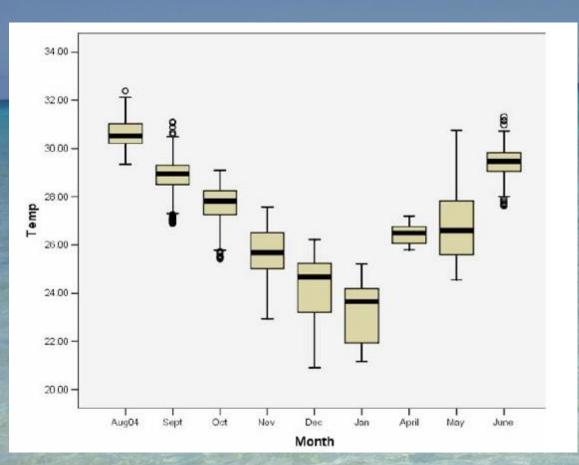


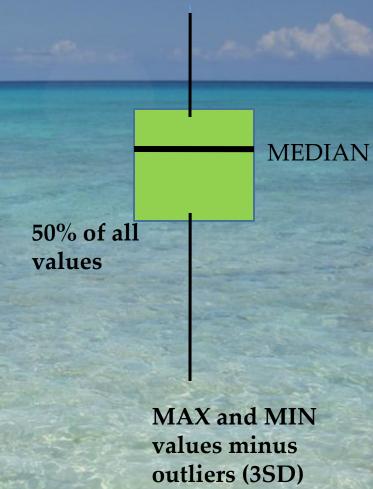




Water Quality Monitoring is expensive and time consuming.

## BOX PLOTS USED TO REPRESENT PATTERNS OF VARIABILITY IN WATER QUALITY PARAMETERS







PHYSICAL ALTERATION OF THE SHORELINE

DESTRUCTIVE
USE OF THE
COASTAL ZONE

BUILDINGS AND DEVELOPMENT

INVASIVE ALIEN SPECIES IN COASTAL ZONE

Dredging	Sand mining	Resorts and Homes	Australian pine
Ports and Marinas	Dumping	Roads	Hawaiian beach cabbage



## RANKING RISK OF EUTROPHICATION

